



M 5.5, 65 km SW of San Carlos, Mexico

Origin Time: 2021-07-31 15:39:21 UTC (Sat 08:39:21 local)

Location: 27.5416° N 111.5183° W Depth: 10.0 km

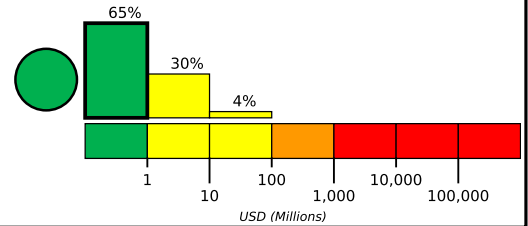
Created: 1 day, 0 hours after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

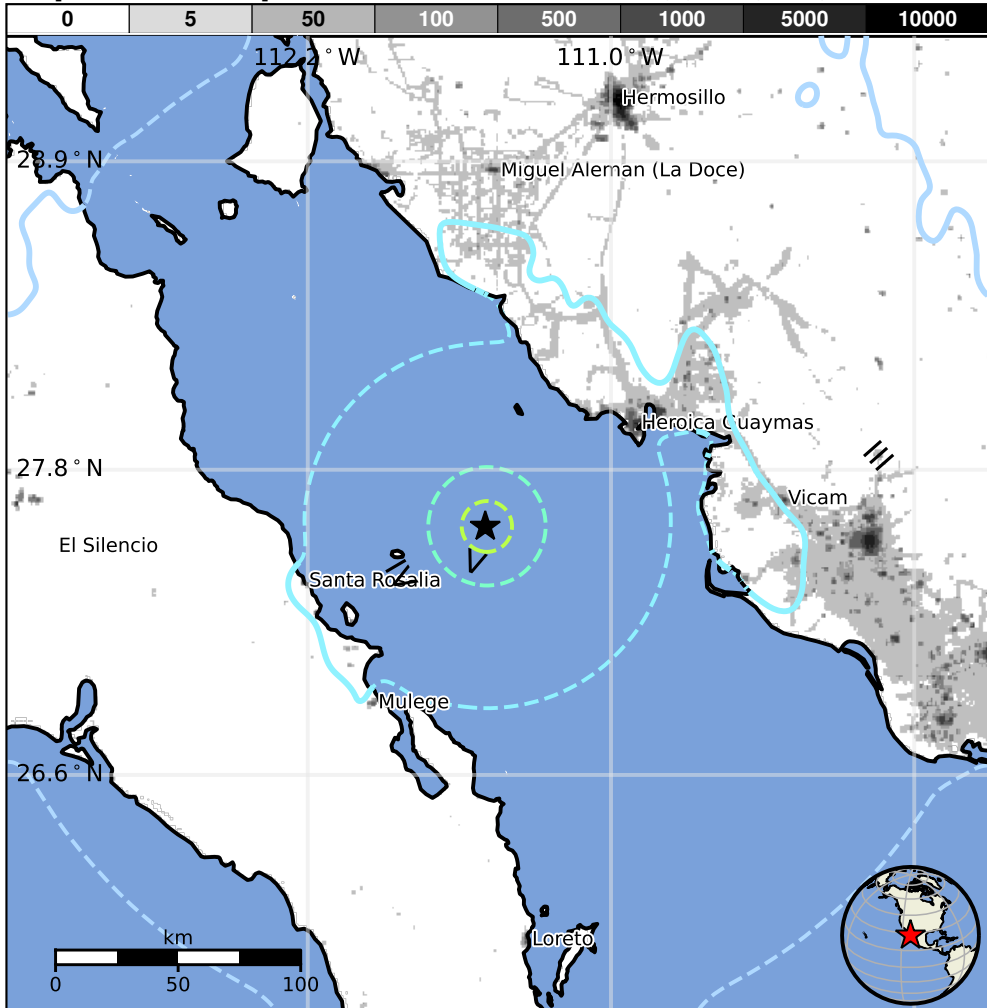


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	1,837k*	258k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are mud wall and adobe block with concrete bond beam construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1993-03-05	211	5.7	V(4k)	—
1974-05-31	47	6.4	VI(60k)	—
1995-06-30	358	5.7	VI(170k)	—

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Empalme	39k
IV	La Palma	1k
IV	Bahia de Lobos	3k
IV	Heroica Guaymas	103k
IV	Guasimas (De Belem)	2k
IV	Potam	6k
III	Ciudad Obregon	258k
III	Miguel Aleman (La Doce)	31k
III	Huatabampo	30k
III	Navojoa	120k
III	Hermosillo	596k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us6000f109#pager>

bold cities appear on map.

(k = x1000)

Event ID: us6000f109